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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

02/23/2004

OLSON & HIERL, LTD. 36th Floor 20 North Wacker Drive Chicago, IL 60606 EXAMINER MOHANDESI, IRAJ A

PAPER NUMBER

ART UNIT

DATE MAILED: 02/23/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/074,478	02/13/2002	Jeremiah L. Grimm	AI-21033	7287

TITLE OF INVENTION: PERMANENT MAGNET ACTUATING MECHANISM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665	\$300	\$965	05/24/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or <u>Fax</u> INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) 7590 02/23/2004 OLSON & HIERL, LTD. Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below. 36th Floor 20 North Wacker Drive Chicago, IL 60606 (Depositor's name (Signature (Date ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION-NO. FILING DATE FIRST NAMED INVENTOR 02/13/2002 Jeremiah L. Grimm AI-21033 7287 10/074.478 (165800-000001) TITLE OF INVENTION: PERMANENT MAGNET ACTUATING MECHANISM APPLN. TYPE SMALL ENTITY **ISSUE FEE** PUBLICATION FEE TOTAL FEE(S) DUE DATE DUE 05/24/2004 nonprovisional YES \$665 \$300 \$965 **CLASS-SUBCLASS EXAMINER** ART UNIT MOHANDESI, IRAJ A 2834 310-156230 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer attorneys or agents. If no name is listed, no name will be printed. Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) Please check the appropriate assignee category or categories (will not be printed on the patent); individual corporation or other private group entity 4a. The following fee(s) are enclosed: 4b. Payment of Fee(s): ☐ Issue Fee ☐ A check in the amount of the fee(s) is enclosed ☐ Publication Fee ☐ Payment by credit card. Form PTO-2038 is attached. ☐ Advance Order - # of Copies _ ☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Authorized Signature) (Date) NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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10/074,478	02/13/2002	Jeremiah L. Grimm	AI-21033 (165800-000001)	7287
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OLSON & HIERL, LTD.		MOHANDESI, IRAJ A		
36th Floor 20 North Wacker I	Drive		ART UNIT	PAPER NUMBER
Chicago, IL 60606			2834	
			DATE MAILED: 02/23/200	4

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)	
	10/074,478	GRIMM, JEREMIAH L.	
Notice of Allowability	Examiner	Art Unit	
	Iraj A Mohandesi	2834	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication. This application is su	this application. If not included nication will be mailed in due course	
1. This communication is responsive to <u>11/24/2003</u> .			
2. The allowed claim(s) is/are <u>5-7 and 9-19</u> .			
3. The drawings filed on 12 February 2002 are accepted by the	ne Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ Aii b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be subminsformal PATENT APPLICATION (PTO-152) which give (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the post attached Examiner's comment regarding REQUIREMENT In the composition of the deposit attached Examiner's comment regarding REQUIREMENT In the composition of the deposit attached Examiner's comment regarding REQUIREMENT In the composition of the deposit attached Examiner's comment regarding REQUIREMENT In the composition of the composition of the deposition of the composition of the compo	been received. been received in Application cuments have been received of this communication to file at the length of this application. betted. Note the attached EXA as reason(s) why the oath or the submitted. con's Patent Drawing Review of Amendment / Comment or the header according to 37 CFF sit of BIOLOGICAL MATE	in this national stage application from this national stage application from the requirement of the stage application from the requirement of the office action of the drawings in the front (not the back) of the stage of the st	ents OF
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Su Paper No./N 8), 7. Examiner's A	ormal Patent Application (PTO-152) mmary (PTO-413), fail Date Amendment/Comment Statement of Reasons for Allowance	

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DETAILED ACTION

Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance:

- 2. Climes 1-4 and 8 have been canceled.
- 3. Claim 8, which was indicated to include allowable subject matter, has been incorporated into Claim 5 and stands in independent form.
- 4. Claims, 6, 9, and 10 depend from Claim 5 and are allowable.
- 5. Claims 7, 13, and 14 depend from Claim 6 and are allowable.
- 6. Claim 11 depends From Claim 9 and is allowable t.
- 7. Claim 12 depends from Claim 11 and is allowable:
- 8. Claim 15 depends from Claim 14 and is allowable.
- 9. Claim 16 depends from Claim 13 and is allowable.
- 10. Claims 17, 18 and 19 which were indicated to be allowable if rewritten in independent form, have been so rewritten and they are now allowable.
- 11. Claims 5-7,9-19 are allowed.
- 12. With regards to claim 5;

The prior art of the record in particular **Schaefer'I7I** does not teach or suggest a plurality of permanent magnets carried on the wheel, the axes of the energizable coils being disposed substantially at right angles to the axes of the permanent magnets, the permanent magnets cooperating with the energizable coils, whereby, upon energization of the energizable coils the wheel will rotate, the outer surface of each permanent magnet having a recess therein that is complementary to the outer configuration of the

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energizable coil. whereby the outer surface of the permanent magnet passes closely to the energizable coil during rotation of the wheel.

13. With regards to claim 17;

The prior art of the record in particular **Schaefer'I7I** does not teach or suggest a plurality of permanent magnets carried on the wheel, the axes of the energizable coils being disposed substantially at right angles to the axes of the permanent magnets, the permanent magnets cooperating with the energizable coils, whereby, upon energization of the energizable coils the wheel will rotate, in a first direction, and upon energization of the energizable coils, the wheel will continue to rotate in said first direction and including control means for selectively and sequentially energizing the starting coil and the energizing coils, the control means including a battery, and wherein the wheel is mounted on a shaft that is journalled on the frame and the control means includes means associated with the shaft for recharging the battery.

14. With regards to claim 18;

The prior art of the record in particular **Schaefer'I7I** does not teach or suggest a plurality of permanent magnets carried on the wheel, the axes of the energizable coils being disposed substantially at right angles to the axes of the permanent magnets, the permanent magnets cooperating with the energizable coils, whereby, upon energization of the energizable coils the wheel will rotate, including control means for selectively and sequentially energizing the starting coil and the energizing coils, the control means 'including a controller flags on the wheel which are in alignment with the permanent

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magnets, a proximity switch means for sensing a flag and for sending a signal to the controller for energizing the energizing coils in sequence.

15. With regards to claim 19;

The prior art of the record in particular **Schaefer'I7I** does not teach or suggest a plurality of permanent magnets carried on the wheel, the axes of the energizable coils being disposed substantially at right angles to the axes of the permanent magnets, the permanent magnets cooperating with the energizable coils, whereby, upon energization of the energizable coils the wheel will rotate, wherein each energizable coil has an exterior generally in the form of a cylinder and each permanent magnet hass an outer surface defined by a curved recess that is complementary to the exterior surface of the energizable coil, whereby, the outer surface of the permanent magnets pass closely to the exterior surface of the energizable coil during rotation of the wheel.

16. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

BURTON S. MULLINS PRIMARY EXAMINER